

Jaenisch awarded for genetic research

*Prof. wins Nat'l
Medal of Science*

By Derek Chang
ASSOCIATE NEWS EDITOR

Professor Rudolf Jaenisch, MIT biology professor and a founding member of the Whitehead Institute, was recently named by President Obama as one of the seven recipients of the National Medal of Science, the highest honor given by the U.S. government in the fields of science and engineering. Jaenisch was awarded for his work on epigenetic regulation, the biological processes that affect how genetic information is translated into cell structures without changing the genes themselves. Last Friday, Jaenisch sat down with *The Tech* to discuss his research and inspiration:

The Tech: Tell me a bit about your background. What was your academic experience like in high school and college, and how has it affected your current work?



Jaenisch: I grew up in Germany. I went to a high school that specialized in Latin and Greek, so at the time I did not take many natural science courses, such as biology or chemistry. In my pre-college years, I therefore did not get as much of an academic foundation in the sciences. However, I still remained connected to science because my father was a physician. I went to medical school afterwards and finished my doctorate in medicine from the University of Hamburg, but I found medicine did not appeal to me. I was interested in experimental science and molecular biology instead, and that

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JARED L. WONG

PUMPKIN DROP 2011

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Letter from Chancellor Grimson on Castillo, Tonegawa deaths

Editor's Note: The following text was sent as a campus-wide email last Friday.

Last week, we were all shocked and deeply saddened to hear of the passing of one of our community, the second death of a student on campus this academic year. Such losses stun us as a community; they are unexpected, they are hard to understand, and they remind us that our community depends not only on our academic endeavors, but above all on the people within it and the connections between us.

At times like this, our first thoughts must be with the grieving families, to offer them care, respect and support in such a difficult moment. As a longtime member of the MIT faculty and as a parent myself, I am also keenly aware that the

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Cause of death determined *Examiner's report: Tonegawa death suicide*

By Ethan A. Solomon
EDITOR IN CHIEF

Freshman Satto Tonegawa's cause of death was ruled self-inflicted asphyxiation, according to his death certificate filed with the Cambridge City Clerk's office. Tonegawa, son of MIT Nobel laureate Susumu Tonegawa, was found dead in his MacGregor dormitory room last Tuesday. He was 18.

Tonegawa's death is the second of the term. On Sept. 4, Nicolas E. Del Castillo, a sophomore, was found dead in his East Campus dormitory room. His death was also ruled a suicide.

Chancellor Eric Grimson PhD '80 addressed MIT regarding the deaths in a campus-wide email last Friday.

"As a longtime member of the MIT fac-

ulty and as a parent myself, I am also keenly aware that the loss of Nicolas Del Castillo and Satto Tonegawa has touched our entire community, including those who may not have known them directly," Grimson wrote. "I want to extend my own personal wish that each of you takes a bit of time away from your academic routine to reflect on your connections to our community and on your sense of personal well-being."

(See sidebar for the full text of Chancellor Grimson's email.)

Tonegawa was born in Boston and lived in Chestnut Hill, about six miles from MIT.

Students who feel affected by this death may contact their housemasters or GRTs for support. Community members may also visit http://web.mit.edu/student/personal_support.html, or reach Mental Health Services at 617-253-2916.

Bizarre blizzard hits Boston area *Halloween snow wreaks havoc in western Mass.*

By Jessica J. Pourian
NEWS EDITOR

The first snowfall came early this year with an accumulation of 1 inch in Boston and 1-2 inches in Cambridge this past Saturday in a rare October blizzard. The snowstorm dumped over a foot of snow in some parts of western Massachusetts, leaving over 620,000 people without power, mostly in the western part of the state. The outage is ongoing; as of 8 p.m. last night, 450,000 people are still without power in Massachusetts.

Heavy rains started in Boston around 2 p.m. and turned into a heavy snowstorm by midnight.

At MIT's Pumpkin Drop, students braved slushy conditions and severe winds on Saturday night to watch the annual event. Spotlights shone on the Green Building highlighted the swirling, wet snow, which accumulated on the ground and had MIT's snowplows out by early Sunday morning. By Sunday afternoon, the weather had cleared.

The current record for snowfall in October for Boston is just 1.1 inches, which was set on Oct. 29,

2005. Though Boston did not break its record, many towns in western Massachusetts broke theirs. Worcester broke its record by the largest margin, with 14.6 inches of snow. Plainfield, which did not break its record, saw 30.8 inches; Ashfield had 25.5 inches.

The current outages are so severe that Halloween has officially been postponed by a number of towns in western Massachusetts and multiple school districts have canceled classes. It might be sev-

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IN SHORT

Lawrence H. Summers '75, former Treasury secretary and current Harvard professor, will be giving a talk today about stimulating growth in the current economy. The talk will be held in Wong Auditorium (E51) Wednesday at 4:30 p.m.

Do neutrinos move faster than light? Probably not. But don't take our word for it. Hear it from MIT Professors Alan H. Guth '69, Edward Farhi, and Peter H. Fisher today at 8 p.m. in 26-100 during a physics panel hosted by LSC.

The MIT 100K Elevator Pitch Contest Finale takes place this Wednesday at 7 p.m. in 32-123. The winner will be awarded \$5,000.

Find something ugly and raise money for a charity at the same time! Enter into APO's Ugliest Manifestation contest and donate to the candidates in Lobby 10 through this Thursday.

Send news information and tips to news@tech.mit.edu.

\$1 BILLION FOR A DICTATOR

Obama got a great deal in Libya. He should seek more bargains.
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EASY INSOLVENCY SOLUTION?

Simply put, the Greeks need to make the tough choices. **OPINION, p. 5**

OCTOBER 31 ... NOVEMBER 1!

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FRIDAY NIGHTS AT THE 'TUTE

What do MIT students do on their night off?
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GEAR UP FOR ELECTIONS!

Your guide to City Council candidates, part 1.
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Storm leaves nine dead, over three million without power

By Anne Barnard and Sarah Maslin Nir
THE NEW YORK TIMES

It was a storm of record consequence, disrupting large swaths of the Northeast in ways large and small: Towns were buried in dense snowfalls, closing down streets, schools, and even, in some cases, Halloween celebrations.

By the time the great snowstorm of October 2011 finally ended early Sunday, more than three million customers would find themselves without power and with the prospect of enduring several more days without it. In many communities, the impact on daily life was far greater than the aftermath of Tropical Storm Irene.

People emptied stores of generators and chain saws and flocked to town halls to charge phones on emergency power. The chilled and the hungry drove miles looking for a cup of coffee, or barbecued meat inexorably defrosting in powerless freezers. In Worcester, Mass., a wedding with cranberry dresses and flowers the colors of fall foliage

ended up soggy and white. In Glen Rock, N.J., orderly suburban blocks became a maze, with fallen branches draped across nearly every street.

At least nine deaths had been attributed to the storm, including a 20-year-old man electrocuted by a downed power line in Springfield, Mass.

Communities in New Jersey, Connecticut, Massachusetts and New Hampshire expected schools to remained closed for several days as they cleaned up downed electrical wires and fallen branches. And in Central Park, as many as 1,000 trees may be lost — eight times the damage suffered after Tropical Storm Irene.

But the most telling sign of how the snow had turned seasons topsy-turvy — throwing an icy and sometimes lethal blanket over trees whose leaves were often still green — the storm threatened to obliterate Halloween.

In Hollis, N.H., officials held an urgent meeting at the town hall where, unlike at their homes, there was heat, hot water, and flushing toilets. The emergency manage-

ment director, Don McCoy, gave them the bad news: He was canceling Halloween until next year.

It was too dangerous, he said, for children to meander through total darkness, live wires and fallen branches, and there was no way to know how soon it would be safe.

Later, he relented, declaring trick-or-treating merely postponed, until Nov. 5, following the lead of the nearby town of Brookline.

“Things should be a little better then, and we hate to disappoint all the kiddies who went out and bought costumes,” McCoy said.

In Worcester, Mass, officials asked people not to trick or treat until Thursday; in New Canaan, Conn., a Halloween parade was canceled; and in New Jersey, town governments issued 5 p.m. curfews — effectively banning trick-or-treating — by sending text messages to residents on their phones.

“I told my kids we’re not having a white Christmas, we’re having a white Halloween,” said Maria Ponce, 32, of Port Chester, N.Y. “They’ll have to wear boots to trick-or-treat.”

76 arrested in drug ring traced to US from Mexico

By Marc Lacey
THE NEW YORK TIMES

PHOENIX — Law enforcement officials on Monday announced the breakup of a massive drug-smuggling ring that used lookouts on hill-tops in southern Arizona to move huge quantities of marijuana and other drugs across the Mexican border to users throughout the United States.

Over the last month and a half, federal, state and local officials have arrested 76 people, from organizational bosses to stash-house guards to those who transported the drugs in backpacks and in vehicles, the authorities said. All were linked to the Sinaloa cartel run by Joaquin Guzman, Mexico’s richest and most wanted outlaw, who goes by the nickname El Chapo, officials said.

Speaking at a news conference on Monday, Arizona officials estimated that the ring had been in operation for at least five years and had generated more than \$2 billion

in profits by smuggling more than 3 million pounds of marijuana, 20,000 pounds of cocaine and 10,000 pounds of heroin into the United States. Such large smuggling rings usually use tractor-trailers to get their contraband across, the authorities said, but this operation relied mostly on migrants on foot straining under their loads.

The authorities acknowledged that the huge smuggling ring operated under their noses, albeit in rugged terrain that is difficult to patrol. The drugs would be carried across the border in relatively small quantities and then transported north to a network of stash houses in the Phoenix area. From there, the contraband would be sold to distributors nationwide.

The route was through the most desolate desert areas of southern Arizona, from Yuma to just east of the border community of Sells, including the sprawling Tohono O’odham Indian reservation. Spotters with radios or cellphones were

used to point out the presence of law enforcement and divert loads, the authorities said.

The investigation began in June of last year with a traffic stop in Pinal County of a suspect who later provided details of the operation, said Sheriff Paul Babeu. Babeu, who is considering a run for Congress, cited the arrests to buttress his argument that the border remains porous, despite the Obama administration’s insistence that it was more secure than ever. About half of those arrested were illegal immigrants and the other half were U.S. citizens or holders of valid visas, officials said.

While calling the arrests a blow to the smugglers, the authorities were cautious in declaring victory.

“I expect there will be a shift,” said Matthew Allen, special agent in charge for the Immigration and Customs Enforcement’s Homeland Security Investigations in Arizona. “One investigation is not going to put them out of business. We have to continually adapt.”

In China, political outsiders turn to microblog campaigns

By Sharon Lafraniere
THE NEW YORK TIMES

BEIJING — For at least some candidates seeking parliamentary seats in local Chinese elections this year, the winning formula is the very antithesis of what works in the United States.

Here, they keep their heads down and elucidate no platform. And if they campaign at all, their politicking is discreetly low-key.

“The last thing you want to do is gather people together,” Yao Bo, a well-known social commentator aiming for a legislative seat in a Beijing district, said in October.

That is because Yao is running as an independent in an election that is ostensibly open to all comers, but in fact is stacked in favor of the Communist Party’s handpicked candidates. To have any hope of cracking the system, some candidates argue, an outsider must either be so famous that he or she cannot

be blocked from running without an outcry, or so anonymous that the authorities are caught off guard.

In past years, no strategy has worked. But in a turnabout, this year’s push by outsiders to infiltrate China’s local political process is creating ripples, partly because of the momentum and visibility they are building via Twitter-like services on the Chinese Internet. Not only are there more candidates — estimates range from more than 100 to thousands — but they are also no longer faceless challengers who can be shoved aside without a whimper.

Many if not most will fail to make it onto the ballot, much less get elected, because of myriad government impediments, Li Fan, director of the World and China Institute, a nongovernmental research center in Beijing, said in an interview. Nonetheless, he said, the surge in such candidacies is “a very strong indication that the gov-

ernment cannot continue to totally dominate public policy.”

Typically, elections to China’s local people’s congresses, the lowest parliamentary tier, excite little interest. More than 2 million lawmakers are chosen in the only government posts — other than village leaders and the odd government-approved experiment — that are determined by direct election. Ordinary Chinese typically sit out the referendums, held every three to five years, because they view the results as foreordained.

But this election cycle, which began in May and will continue through next year, is already proving different.

Consider the candidacy of Guo Huojia, 59, a vegetable and fruit seller with a primary school education. He has battled local authorities outside Guangzhou, in southern China, for four years over what he claims are illegal government seizures of farms for development.

Kyrgyzstan votes for president, hopes for peace

BISHKEK, Kyrgyzstan — The people of this strategically important Central Asian nation voted in a presidential election Sunday, seeking an end to years of political turmoil, though some fear the vote could expose the regional and ethnic divisions that nearly tore the country apart last year.

Almazbek Atambayev, who was prime minister until stepping down in September to concentrate on his campaign, was set to win with about 60 percent of the vote, the Central Election Commission reported Monday.

It was the first presidential election since the bloody ouster in April 2010 of Kyrgyzstan’s authoritarian leader, Kurmanbek S. Bakiyev. That was followed by an explosion of violence between ethnic Kyrgyz and minority Uzbeks in the south of the country that led to nearly 500 deaths.

Since then, there have been no other major outbreaks of violence, though people in this former Soviet republic of about 5 million people remain on edge.

The election was being monitored closely by international observers, particularly from the United States and Russia, both of which maintain military bases in Kyrgyzstan. The U.S. air base, officially called a “transit center,” at the Manas airport outside Bishkek, is an important supply hub for NATO forces in Afghanistan.

“People are tired of protests; they do not want any more blood,” Atambayev said outside a polling place. “We’ve already had enough revolution. It’s time to work.”

Independent analysts said they expected electoral violations to be minimal. Authorities raised eyebrows by banning local cable stations from broadcasting foreign channels like CNN and the BBC as the election approached. And they put Russian channels, which many Kyrgyz rely on for their news, on an hour delay. Officials said they wanted to prevent foreign intervention in the vote.

Still, more than 80 candidates had declared their intentions to run in the election, though that number shrank to 16 by election day.

—Michael Schwartz, *The New York Times*

United Airlines tests iPad for ‘paperless flight deck’

Capt. Joe Burns, the airline’s managing director of technology and flight test, took an iPad for a test flight last week in an Airbus A320 simulator in the Denver Flight Training Center.

“This was no small feat,” said Burns, tapping the iPad screen to bring up an approach chart to Denver International Airport. “The time is right to do this with new technology.”

When it debuted in 2010, the Apple iPad was seen as an entertainment device. United — and other airlines — are seeing the iPad has a way to slice fuel use by cutting on-board weight.

The iPad weighs about 1.5 pounds, Burns said, while the flight bag containing paper copies of charts and handbooks weighs about 40 pounds. United estimates the savings will be about 326,000 gallons of jet fuel a year and 16 million sheets of paper.

“This is a game-changer for us,” Burns said.

What pilots won’t be able to do with the iPads — just like passengers can’t — is to turn on the devices during takeoffs and landings. Until the Federal Aviation Administration is satisfied with six months of testing, United’s pilots will be constrained in using iPads below 10,000 feet because of concern about interference.

The difference, Burns said, is that what is loaded on the airline’s iPad is tightly controlled and has shown “zero interference” with aircraft electronics, unlike passengers’ devices such as cellphones.

United pilots also won’t be able to play mobile app games like “Angry Birds,” sort through their e-mail or watch movies.

If pilots need information below 10,000 feet, Burns said they can get it through the aircraft’s computers.

The plan is to have the iPads, called electronic flight bags, in the hands of the 11,000 United and Continental pilots by the end of the year.

—Ann Schrader, *The Denver Post*

Japanese officials intervene to weaken yen

TOKYO — Japan’s latest effort to shore up the export end of its economy by forcing down the value of the yen came too late to help businesses like the Honda Motor Co. and the Panasonic Corp., which on Monday blamed the strong yen for hurting their profits.

The Japanese government intervened in foreign exchange markets early Monday, selling yen for dollars for the fourth time in a little more than a year.

The strong yen is a burden for Japan as it seeks a path to recovery after natural and nuclear disasters this year. While companies have been quick to rebuild factories and restore supply chains, the yen has undermined revival for the nation’s exporters, which drive much of its economic growth, by making their products less competitive overseas.

Honda said its net income fell 56 percent to 60.4 billion yen, or \$796 million, in its fiscal second quarter, compared with 135.9 billion yen a year ago, and sales fell 16.3 percent to 1.886 trillion yen. With the yen trading at an average of 78 to the dollar, compared to 86 a year ago, Honda said exchange rates knocked 36.7 billion yen off of its books.

Honda’s shares fell \$2.68, or 8.23 percent, to close at \$29.87 on Monday.

Panasonic, meanwhile, cited the yen in warning that it expected to lose 420 billion yen in the 12 months through March, a sharp reversal from an earlier forecast of 30 billion yen in profit.

Its shares fell \$0.92, or 8.4 percent, to close at \$10.06 on Monday.

In early foreign exchange trading Monday, the dollar fell to a post-World War II low of 75.31 yen, apparently prompting Japanese officials to act. As Japan confirmed its unilateral intervention, the dollar jumped more than 4 percent against the yen before falling to 78.20 yen by early evening.

The last time Japan entered currency markets was Aug. 4, when it sold a record 4.5 trillion yen and bought dollars, causing the yen to tumble temporarily. But a week later, the currency was back above its levels before the intervention.

—Hiroko Tabuchi, *The New York Times*

WORLD&NATION WORLD&NATION WORLD&NATION WORLD&NATION WORLD

It's all Greek (economics) to me

A tale of bad decision-making

By Haldun Anil
STAFF COLUMNIST

Let's start with something obvious: Greece is insolvent. What this means is that it is no longer financially capable of paying off its debts. Insolvency usually occurs in one of two ways: you are either incapable of paying your debts as they are due or you own net negative assets, meaning your liabilities exceed your assets. The former is true in the case of the Hellenic Republic, where the government simply no longer has the financial power to pay off its many debts.

There are several reasons for this: one is the fact that in the past, the government has given out jobs like they were giving out candy. This means that there are so many unnecessary jobs in the government that a lot of people don't even bother showing up to work anymore. They do, however, reap the benefits of steady employment where they receive a government salary and benefits without having to bear the hardship of actually doing an honest day's work. Since the government can't simply decide to cut jobs one day, the plumbing remains an issue — with lots of green leakage, if you catch my drift.

Another reason why Greece is having financial woes is because of the euro itself. When it first adopted the single European currency, the Greek government went on a spending spree — not unlike a shopping

spree done by Fifth Avenue socialites — and started spending well beyond its means, eventually reaching a point where spending in the public sector became ridiculously excessive.

Let's return to the obvious for a minute. How does a government make money? Hint: it's a three-letter word that we all despise. You guessed right, they make money by collecting a tax! In order to pay for all spending and debts, a government such as Greece's needs a steady flow of cash from its citizens. Due to pervasive tax evasion, however, Greece found itself in a particularly bad position in the 2008 crisis when it was struck full-force by the downturn and did not have the means to cope.

After being promised a substantial bailout from the EU — more than €100 billion, roughly the equivalent of \$140 billion — Greece is managing to get through the crisis. The overall outlook remains bleak, however, with Greece almost certainly facing default on its debt. What will this mean for the rest of us? A Greek default will mean a renewed financial crisis, especially for the eurozone, where many countries such as Germany and France own Greek sovereign debt. An uncontrolled default could potentially mean the failure of many Greek and European banks. It could also catalyze a new global recession, as many people would try to withdraw their assets from banks simultaneously, bringing the financial system to a near halt. The worst possible outcome would be

a total economic collapse of Greece as it is forced to leave the euro — and possibly the European Union — and revert to the drachma, the euro's Greek predecessor. The Greek currency would be uncontrollably inflated, Greece's government would likely collapse entirely, and the global economy would plunge back into darkness.

The Greeks must understand the implications of economic collapse and stop rioting against every austerity bill that goes through Parliament.

Now that we've had our daily dose of despair and fear for our future financial security, let's talk about what can be done to alleviate the situation. At this point, most economists believe that a Greek default has become inevitable. In that case, what must now be focused on is austerity, which means cost cutting on a national scale. By restructuring its debt and taking measures to lower unnecessary spending, which can be done by laying off public sector workers (a large portion of whom are pointlessly employed anyway), decreasing public ser-

vices, and taking measures to cut spending, the Greek government may eventually be able to repay its debts. Even in the best scenario, however, Greece has to prepare for possible economic depression for some time to come.

The Greeks must understand the implications of economic collapse and stop rioting against every single austerity bill that goes through Parliament. Just a few days ago, tens of thousands took to the Parliament building in Syntagma Square to protest the new austerity bill that aims to cut wages and benefits. I honestly don't understand the rationale behind the protests. The Greek people need to stop expecting that some magical solution will drop down from the sky and accept that cost-cutting and losing some of their wages will be the best compromise for the future sustainability of their nation's economy. The other option is economic collapse and the major loss of jobs and livelihood.

It's time to lift our heads up, look ahead, and understand that some compromises made today will salvage our future at the relatively insignificant expense of the present. This lesson is not only for Greece and other financially troubled countries to learn, but also for Americans — we have grown to take so much for granted and have become too stubborn to compromise. The time for stubbornness is over and, if we want a future, we must learn to accept that certain sacrifices will have to be made.

\$1 billion for a dictator

Obama made a good deal in Libya, and he should seek others like it

By Keith Yost
STAFF COLUMNIST

War is never a clean affair. The recent action in Libya is no exception — in victory, the rebels have taken to killing pro-Gaddafi forces in retribution, including, it appears, Gaddafi himself, who was captured while fleeing his final holdout in Sirte. But the final outcome is as pure and as cheap a victory as the United States can hope to force on the modern battlefield. The Department of Defense estimates that from March to September, the Libyan intervention cost the DOD a mere \$1.1 billion, with no U.S. casualties.

Critics were right to chastise the president for his weak initial foray into Libya. The U.N. mandate he secured as part of a left-wing experiment in the “responsibility to protect” doctrine did not go far enough to support the ouster of Gaddafi and his forces. Had the president refused to go further in support of regime change, the Libyans would likely still be locked in a bloody civil war. But ultimately, Obama changed course, putting larger forces into the conflict while

avoiding an overcorrection. The result is the most cost-efficient liberation that the U.S. could have hoped for.

With luck, the success in Libya will put to rest the notion that the U.S. can force a regime change without adhering to Friedman's rule of 'you break it, you bought it.'

With luck, the success in Libya will put to rest the notion that the U.S. can force a regime change without adhering to Thomas Friedman's "pottery barn rule" of "you break it, you bought it." The U.S. does not need to engage in decade-long nation-building exercises after having helped rid the world of Colonel Gaddafi — U.S. advisors might remain on the ground through the end of the year, but the brunt of democratization can

be born by the free men and women of Libya, not the American taxpayer.

The victory should also embolden Obama to act more forcefully in Libya-like states. The military advisors sent to Uganda to help African forces put an end to Joseph Kony and his Lord's Resistance Army in October are a positive indication.

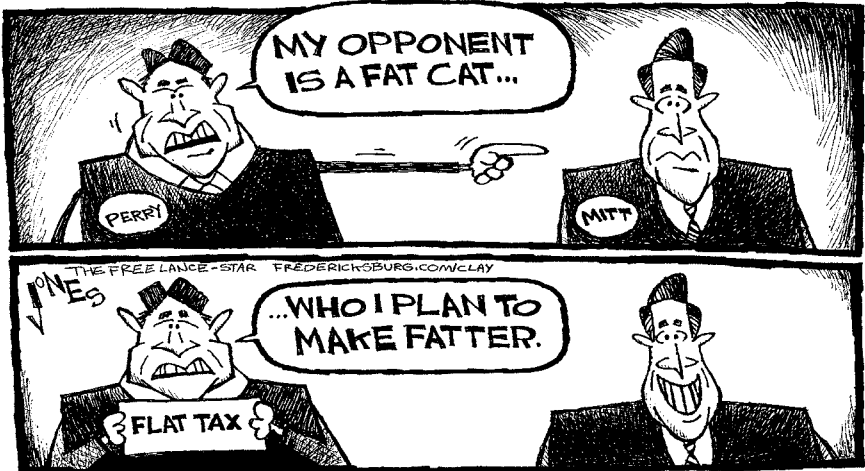
More significantly, President Obama will soon be faced with a decision of whether to intervene in Syria. For months, the Syrian opposition has refused to ask for protection against the government forces brutalizing them. Ausama Monajed and other leaders firmly believe that the Syrian government will fall before it becomes excessively violent. Their reticence toward western help has been reason enough to avoid intervention.

It is only a matter of time however before the Syrian opposition realizes its miscalculation. Bashar al-Assad is not going quietly as his Egyptian counterpart Hosni Mubarak did. The U.N. estimates that 3,000 Syrians have been killed since the start of the uprising. The Syrians will switch from protests to armed revolt and call for protection before

they let their dreams of democracy founder on the clubs and guns of Syria's military forces.

When that moment comes, Obama should be ready to take the same steps he took in Libya. Already, diplomatic efforts should be underway to bring NATO members on board with a future intervention. NATO planners should be laying out a strategy to neutralize Syrian air defenses and work out the details of other combat eventualities. And though the U.S. ambassador to Syria recently had to leave the country for security reasons, the U.S. State Department should continue its conferencing with the Syrian opposition, both to keep close tabs on the mood of the resistance, as well as to plan for a post-Assad Syria.

One billion dollars is a cheap price to pay for the liberation of six million people. At that price, the United States could buy the freedom of the whole of the autocratic world with less than what Bush spent in Iraq alone. The president should be congratulated on his purchase, and sent back to the market to buy more.



It was the best of times, it was the worst of times



Police Log

The following incidents were reported by the Campus Police between September 26, 2011 and October 18, 2011. The dates below reflect the dates the incidents occurred. This information is compiled from the Campus Police’s crime log. The report does not include alarms, general service calls, or incidents not reported to the dispatcher.

- Jun 21 Bldg. 44 (51 Vassar St.) 10:30 a.m., Past larceny of a Macbook from locked office. Dispatched sector 3 for report.
- Jul 15 Bldg. E62 (100 Main St.) 9:30 a.m., Pedestal fan stolen
- Aug 01 Bldg. 41 (77 Vassar St.) 1:00 p.m., Response to past larceny of a camera.
- Aug 28 Bldg. 12 (60 Rear Vassar St.) 9:00 a.m., Pocket book left unattended stolen. West car officer takes report.
- Sep 16 Bldg. E25 (45 Carlton St.) 6:30 p.m., Larceny from gym, sector 1 officer dispatched. Officer takes larceny report.
- Sep 19 Bldg. E51 (70 Memorial Dr.) 7:57 a.m., Report of harassing emails.
- Sep 22 Bldg. 50 (Walker Memorial, 142 Memorial Dr.) 7:39 a.m., Check and inquiry of David Cook, 20 Fairchild Ave., Saugus, MA. Arrested for trespass after notice.
- Sep 22 Bldg. 33 (125 Massachusetts Ave.) 8:19 a.m., Malicious damage to a door.
- Sep 23 Bldg. 4 (182 Memorial Dr.) 10:56 a.m., Laptop computer stolen, sector 3 officer takes report. Officer takes report for stolen laptop.
- Sep 23 Bldg. 5 (55 Massachusetts Ave.) 3:05 p.m., Call regarding fire alarm, units responded to area. Battery fire.
- Sep 24 Bldg. E23 (25 Carlton St.) 6:04 p.m., Officer performed a field stop in the rear of E23. Subject checked out OK and told to leave area.
- Sep 24 Bldg. 26 (60 Vassar St.) 6:34 p.m., Officer reported a suspicious male wandering the halls. Officer issued trespass warning.
- Sep 24 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 10:19 p.m., Homeless person issued a trespass warning.
- Sep 25 Sigma Nu (28 The Fenway) 3:00 a.m., Report of an attempted break in. Dispatched sector 3 to take report.
- Sep 26 Bldg. W51 (Burton-Conner House, 450 Memorial Dr.) 5:27 p.m., Party in station to report his mountain bike was stolen.
- Sep 27 Bldg. W85 (Westgate, 540 Memorial Dr.) 12:00 p.m., Larceny by scheme, online purchase, merchandise not delivered.
- Sep 27 Bldg. E52 (50 Memorial Dr.) 1:35 p.m., Sector 1 takes report of a larceny of a bicycle.
- Sep 27 Bldg. 1 (33 Massachusetts Ave.) 5:36 p.m., Backpack containing laptop and cell phone stolen. Report taken.
- Sep 27 Bldg. 14 (160 Memorial Dr.) 7:02 p.m., Off with three suspicious males. Three juveniles arrested for receiving stolen property and other related charges.
- Sep 27 Bldg. 50 (Walker Memorial, 142 Memorial Dr.) 10:00 p.m., Reports suspicious male loitering in the area. Person located and given trespass warning.
- Sep 27 Sigma Chi (532 Beacon St.) 11:20 p.m., Larceny of motor scooter. Report taken.
- Sep 28 Bldg. 36 (50 Vassar St.) 2:09 a.m., Two suspicious persons stopped in building 36, second floor. Kadeem Collins of 23 Humphreys St., Dorchester MA, arrested on an outstanding warrant.
- Sep 29 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 4:12 a.m., Two homeless people sleeping in Student Center issued trespass warning.
- Sep 29 Bldg. W35 (100 Vassar St.) 12:00 p.m., Larceny of laptop.
- Sep 30 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 5:50 a.m., Laptop stolen while person was sleeping.
- Sep 30 Bldg. 18 (21 Rear Ames St.) 9:38 p.m., Suspicious person on a bike. Issued trespass warning.
- Oct 01 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 5:40 a.m., Sector 4 conducts check of two subjects — homeless and issued trespass warnings.
- Oct 01 Bldg. 3 (33 Massachusetts Ave.) 2:44 p.m., Bike secured with a cable lock stolen.
- Oct 02 Kappa Sigma (407 Memorial Dr.) 1:02 a.m., Report of a pumpkin thrown through window.
- Oct 02 Bldg. 32 (Stata Center, 32 Vassar St.) 3:43 p.m., Officers respond to a report of a suspicious male in the Stata Center. Trespass warning issued.
- Oct 03 Bldg. 4 (182 Memorial Dr.) 8:51 a.m., Attempted larceny of laptop computer.

- Oct 03 Bldg. 1 (33 Massachusetts Ave.) 2:41 p.m., Party states her pocketbook was just stolen from her office. No suspects were seen in the area.
- Oct 03 Bldg. W70 (New House, 471 Memorial Dr.) 4:08 p.m., Bike stolen from New House bike rack area. Report taken.
- Oct 03 Bldg. 26 (60 Vassar St.) 4:47 p.m., Bike was stolen. Report taken.
- Oct 04 Bldg. NW30 (224 Albany St.) 7:26 p.m., Bike was stolen from the Z-Center. Report taken.
- Oct 04 Bldg. W70 (New House, 471 Memorial Dr.) 10:06 p.m., Bike was stolen. Report taken.
- Oct 05 Bldg. W13 (Bexley Hall, 52 Massachusetts Ave.) 6:39 a.m., Report of male annoying a person of the opposite sex with lewd behavior.
- Oct 05 Bldg. 2 (182 Memorial Dr.) 12:22 p.m., Report of two suspicious individuals on first floor. Issued trespass warnings.
- Oct 05 Bldg. W35 (100 Vassar St.) 12:57 p.m., Backpack containing laptop and iPhone stolen from track area.
- Oct 06 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 1:38 a.m., Homeless person issued trespass warning and sent to shelter.
- Oct 06 WILG (355 Massachusetts Ave.) 3:16 a.m., Report of homeless male in doorway — issued trespass warning and sent to shelter.
- Oct 06 Bldg. 46 (46 Vassar St.) 4:05 p.m., Report of person calling and harassing workers. Person has been banned from MIT and advised not to call MIT. Report also taken.
- Oct 06 Bldg. W31 (Du Pont Athletic Gymnasium, 120 Massachusetts Ave.) 8:40 p.m., Report of a male tugging at a bike locked to rack. Juvenile released to his mother.
- Oct 07 Bldg. NW61 (Random Hall, 290 Massachusetts Ave.) 4:00 a.m., Bike locked with cable lock stolen.
- Oct 07 Bldg. 33 (125 Massachusetts Ave.) 9:43 a.m., Astronautical memorabilia stolen.
- Oct 07 Bldg. 2 (182 Memorial Dr.) 9:49 a.m., Report of a suspicious male that has been sleeping in the Math Lounge.
- Oct 07 Bldg. 39 (60 Vassar St.) 4:49 p.m., Past larceny of daily planner.
- Oct 07 Bldg. W13 (Bexley Hall, 52 Massachusetts Ave.) 7:33 p.m., Report of a trespasser; arrest of Robert Stott, 290 Massachusetts Ave, Cambridge MA.
- Oct 09 Bldg. W79 (Simmons Hall, 229 Vassar St.) 1:08 a.m., Report of a disturbance in front of Simmons Hall between student and cab driver. Officers placed an individual in protective custody and transported to Cambridge Police Department.
- Oct 09 Bldg. W71 (Next House, 500 Memorial Dr.) 9:40 p.m., Report of a suspicious person in area.
- Oct 10 Bldg. W89 (Campus Police, 291 Vassar St.) 5:38 p.m., Reporting party in station to report sexual harassment. Report taken.
- Oct 11 Bldg. 9 (105 Massachusetts Ave.) 4:26 p.m., Party reports multiple laptops stolen from area over long weekend. Sector three for the report.
- Oct 11 Bldg. 32 (Stata Center, 32 Vassar St.) 7:45 p.m., Caller states bike stolen from front of Stata.
- Oct 13 Bldg. 10 (122 Memorial Dr.) 1:28 a.m., Report of homeless male sleeping in room in building 1.
- Oct 13 Bldg. 1 (33 Massachusetts Ave.) 8:28 a.m., Larceny of a camera.
- Oct 13 Bldg. 9 (105 Massachusetts Ave.) 4:45 p.m., Report of four filing cabinets stolen.
- Oct 13 Bldg. 9 (105 Massachusetts Ave.) 9:00 p.m., Attempted break into a room.
- Oct 15 Bldg. W35 (100 Vassar St.) 11:03 a.m., Larceny of a gym bag with clothing.
- Oct 15 Bldg. 76 (476 Main St.) 2:26 p.m., Report of stolen laptop.
- Oct 15 Bldg. W11 (40 Massachusetts Ave.) 3:53 p.m., Larceny of a backpack containing a laptop and textbooks.
- Oct 15 Bldg. W51 (Burton-Conner House, 410 Memorial Dr.) 5:24 p.m., Diamond rings were stolen from lounge area.
- Oct 17 Bldg. 10 (122 Memorial Dr.) 2:19 p.m., Sector 3 takes report of a suspicious male.
- Oct 17 Killian Court (222 Memorial Dr.) 2:23 p.m., Sector 3 arrest of Chad Lockrow, 39 Boylston St., Cambridge MA, for trespass after notice.
- Oct 17 Bldg. 8 (21 Ames St.) 3:31 p.m., Sector 3 dispatched to the location for continuing suspicious activity.
- Oct 18 Bldg. E15 (20 Ames St.) 5:40 p.m., Laptop was stolen. Report taken.
- Oct 18 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 6:55 p.m., Reporting party states his backpack and laptop were stolen. Report taken.
- Oct 18 Bldg. 12 (60 Rear Vassar St.) 7:25 p.m., Report of unwanted person in the area. Person given trespass notice.

COMPILED BY JOSEPH MAURER.

Jaenisch discusses research inspiration

MIT’s latest Medal of Science win

Medal of Science, from Page 1

has been my focus in research since.

TT: What prior research stimulated your interest in epigenetic regulation?

RJ: When I was a postdoctorate student back in the 1970s, I was working with tumor viruses and wondered why the virus created just skin tumors and not tumors in other parts of the body, such as the liver and brain. Does the tumor virus infect other cells but not transform them? ... I read a paper that discussed chimeric mice — mice with cells that originated from different zygotes. The mice were created by aggregating a black mouse and white mouse embryo, so that the offspring mice were striped. What interested me in the process was [that] mice could be created from embryos that were manipulated in a petri dish.

I thought that integrating a virus into an early mice cell would cause the virus to be spread to new cells that were created. But instead I found that although the virus was clearly expressed in adult mice, it remained silent in embryos. There must have been a developmental regulation in the cells that could support virus replication. From here came the idea of epigenetic regulation — the virus would become modified as cells multiply.

TT: Cam you discuss some of the recent issues you have worked with in epigenetic regulation?

RJ: When I came to Boston and began working in the Whitehead Institute, it was already possible

to make a mutation of the enzyme transferase, and put it into cells. Mice deficient in this embryo died early in development, proving the importance of methylation in development. This was the background from which I studied the role of epigenetics in cancer and chromosome activation.

Dolly was created from epigenetic regulation — she was made from a skin cell that was put into an egg of a new sheep, which led to the creation of a new sheep. If this is to be done with humans, you will need human eggs as well. However, we found we could take a skin cell, treat it, and make pluripotent cells to make a new organism. These induced pluripotent stem cells [iPS cells] have the ability to differentiate into different cells of the body, though they cannot create a completely new organism. This technique can revolutionize medicine, because you can study disease from the iPS cells of sick patients.

TT: Do you have any advice for students who are aspiring scientists or researchers?

RJ: Students should always follow their interests and be courageous to look for answers to questions they are interested in. Scientific research is a risky business, but you’re bound to get satisfying results if you are passionate about what you do. One challenge you will face in research is that funding favors those who do bandwagon research. But if you focus on your interests and solutions to research problems instead of on the actual paper or job, you will find the process to be extremely satisfying.

Watson puts MIT, Harvard to shame

Yesterday was a bad day for MIT at The IBM Watson Challenge held at Harvard’s Burden Auditorium. Teams of students from the MIT Sloan School of Business and Harvard Business School competed against Watson, IBM’s champion *Jeopardy!* robot. Representing MIT were Sloan students Ari M. Oxman G, Raymond J. Andrews G, and Gautham V. Iyer G. Harvard Business School was represented by Genevieve Sheehan, Jonas P. Akins, and Jayanth Iyengar. Watson emerged victorious, with a final score of \$53,601, trailed by Harvard with \$42,399, and MIT with \$100.

The teams competed in categories that included “Who’s Your Daddy Company?,” “Presidential Rhyme Time,” and “Before and After Goes to the Movies.” Initially, both MIT and Harvard had problems with timing answers correctly (buzzing in at an unsuitable time leads to being “locked out”). Watson, however, benefited from computer-precise timing (MIT’s timing problems continued throughout the match). MIT finished the initial *Jeopardy!* round with –\$200 after betting over their score on a Daily Double. MIT then uncovered another Daily Double in the Double *Jeopardy!* round. Though they answered correctly, they did not have enough money to make a substantial wager.

The final *Jeopardy!* clue, in the category of Americana, was answered correctly by both Watson and Harvard. All three teams made heavy wagers in Final *Jeopardy!*. Before Final *Jeopardy!*, Harvard had trailed Watson by only \$1,800.

—Jaya Narain



MacVicar Faculty Fellows Lecture Series

Thoughts on the Future of Engineering Education at MIT

Professor Ian Waitz, MacVicar Faculty Fellow and Dean of Engineering

Wednesday, November 2, 2011, Killian Hall, 14W-111

Refreshments: 3:00 PM
Lecture: 3:30 – 4:30 PM

Sponsored by The MacVicar Faculty Fellows Program and the Office of Faculty Support



Cambridge City Council Candidates: Part 1

Tuesday, Nov. 8 marks election day in Cambridge. Eighteen City Council candidates, including all nine incumbents, are running for one of the nine two-year seats.

Many candidates this year are focusing on the development of Kendall Square. Candidate Charles Marquardt said that Kendall has been termed by many as the most innovative square mile on Earth, due to the number of biotech companies that have moved in. The MIT Investment Management Company (MITIMCo), which owns most of the remain-

ing undeveloped land, has plans underway to encourage future growth in Kendall Square over the next 20 years. Many candidates want MITIMCo to remember the needs and well-being of the students and residents living in the area.

Relations between MITIMCo and the Council have not always been smooth. Last October, councilor Kenneth E. Reeves wrote a letter to President Susan J. Hockfield asking for the removal of MITIMCo's head of real estate over disagreements about how MITIMCo

is maintaining the properties that it owns.

As in previous years, the candidates highlight safety, environmental awareness, economic health, and public education as the main issues they will be tackling in the upcoming term. Although many of the same issues exist now, candidates are proposing alternative strategies to tackle them. Candidate James Williamson, for instance, plans to approach sidewalk and crossroad safety by improving and sustaining the enforcement of the Cambridge Bicycle Ordinance and the

Massachusetts General Laws. Newcomer candidate Minka vanBeuzekom wants to encourage business growth, but is against over-commercialization — especially near residential buildings in less densely populated areas like Lechmere and the Alewife Overlay District.

The following table is not complete — it only includes the candidates who responded to *Tech* inquiries before Monday. Friday's issue will include the remaining ten candidates. For more information on the candidates, visit <http://vote.rwinters.com/>

The following is a summary of candidates' key stances, with an emphasis on policy affecting MIT and its students. Several candidates are not included here and will be represented in a follow-up in Friday's edition of The Tech.

Candidate	Top three priorities	Background	MIT/Cambridge relations	Students Need
Henrietta Davis	Healthier Children: Better physical education and food in schools. Better parks and playgrounds for children. Better serivces for seniors: More housing options. Environmental initiatives: Greener transportation options, energy-efficient buildings, planning for climate change, locally sustainable food.	Eight terms on City Council 2010–2011 Vice Mayor Chair of Council Environmental Committee	Enjoys working with MIT on environmental and energy matters.	More housing options, especially for graduate students. An increase in housing development in Kendall Square area.
Minka vanBeuzekom	Public schools: Improve education by targeting early childhood and adult education programs in schools. Environmentalism and urban living: Encourage commerce growth; increase city growth while paying attention to overpopulation and overbuilding in places like Kendall, Lechmere, Alewife Overlay. Increase innovation in Cambridge government: Function with the best practice.	Epidemiologist with a background in public health. Owner of small biotech company in Cambridge in the '90s. Involved in many environmental and community activist groups, including Green Decade Cambridge and Area Four Neighborhood Coalition Leader.	Believes there should be a distinction between MIT, the university, and MIT, the investment corporation. Takes the stance that the MIT Investment Management Company is not taking its full share of consequences — while developing Kendall, for example, it should invest in more than just the corporate sector.	Pedestrian and bike safety Sufficient housing Improved nightlife, including longer businesses hours
Larry Ward	Working with young adults ages 18–24: Provide training and employment opportunities. Focus on good governance: Better communication between residents, including MIT students, and the city. Keep Cambridge family-friendly: Affordable housing, effective education.	Former Chairperson of City of Cambridge's University Relations Committee. Has experience working with MIT and students. Has lived in Cambridge for 25 years.	Hopes to bridge gap between students and the city. Aims to help students utilize the city better: MIT students have a lot to offer and can, for example, be mentors for younger students.	Improved nightlife Pedestrian and bike safety
Tom Stohlman '76	Zoning and development of Kendall Square: Work with MIT Investment Management Company, which owns a large part of the last undeveloped zones. City Manager's contract: Expires in 2012 and currently under automatic renewal; Stohlman hopes to spur discussion about new options for the contract. Pedestrian safety: Sidewalk/street repair.	Attended MIT in '70s (Courses 4 and 10) and has since seen the progression of the Institute. Returned to Cambridge 11 years ago. Consults/advises several fraternities and sororities; sees undergraduates a lot.	Believes that councillors perceive MIT and Harvard too negatively. He thinks the councilors should be more positive about what MIT does for Cambridge, including the commercially strong tax base that the MIT Investment Management Company generates.	Keeping neighborhoods and bicycle paths safe.
Charles Marquardt	Preparing Cambridge for next generation of administrative leadership: City manager might retire after his 30 year term; assure all transitions are concise and well thought-out, and knowledge is retained in transitions. Sustainable and strategic development: While much innovation is occurring, keep Cambridge's "small-town" feeling. Opportunities for working middle-class: Cambridge is slowly becoming a community of the very wealthy and the very poor.	Diverse background, worked in private sector for many differently-sized companies. Grew up working in Cambridge. Dealt with different levels of Cambridge Board as community member and business owner.	Believes the interaction between the MIT Investment Management Company (MITIMCo) and Cambridge City Council hasn't been stable. He believes MITIMCo hasn't done a good job of making Kendall and Central Squares publicly appealing.	Increase in on-campus housing, especially for grad students Pedestrian and bike safety
Matt Nelson	Preserving economic diversity: Improve education and housing policies so Cambridge doesn't become a city of the rich and the poor. Cambridge youth: Emphasize learning and increase educational opportunities outside of the classroom. Driver, pedestrian, and especially biker safety: There is no good system for bikes to get around the city.	Cambridge native Appreciates Cambridge's history and vision for future State coordinator of Massachusetts Environmental Voters Education Fund	Believes that Cambridge has been lucky to have MIT and the technical innovation it has brought to the city. Wants to see students get more involved, especially as mentors for younger students in the city.	Improve Cambridge to be a safer and more comfortable city. Affordable housing.
James Williamson	Pedestrian Safety: Improve and sustain real enforcement by the CPD of the largely unknown Cambridge Bicycle Ordinance and the Mass. General Laws. Major improvement of public transportation in Cambridge: Will insist on better and more timely and accurate information from the T. Participatory budgeting: Cambridge citizens have say in part of the budget; shift the government so it is more "bottom-up," versus "top-down." Greater community consultation over important decisions.	Has lived in Cambridge for forty years. Long-time Council activist. Committed to protecting integrity and human diversity in the city.	Believes that the MIT Investment Management Company (MITIMCo) is too commercially oriented. Thinks that MITIMCo should better reflect academic and residential needs of the students. Make MIT resources more widely and publicly available.	"I'm not going to tell them what they want — they should tell me!"
Leland Cheung G	City Manager: Contract renewal in March 2012. Activism: Ensure that progressive legislation is being passed. Council transparency: Online tools to understand government services, voting items, and ways to interact with the Council.	Served one term on Council. Current student at Harvard Kennedy School and MIT's Sloan School of Management.	Wants to increase student involvement in the city, including student internships, because the local government directly affects them.	Increased housing and retail options More open space A voice to speak for their interests



Pumpkins anticipate their fate along the 1W hallway at East Campus.

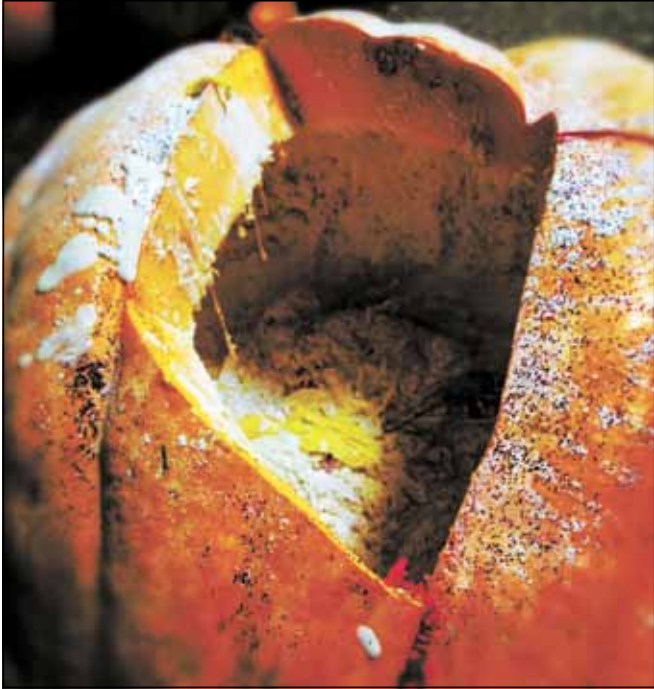
MARK FAYNGERSH

PUMPKIN DROP 2011



MIHO KITAGAWA

First West Hall Chair Samantha R. Hagerman '14 prepares to toss a pumpkin over the edge of the Green Building roof.



MARK FAYNGERSH

The largest pumpkin dropped was filled with all sorts of fun!



JARED L. WONG

Tech chairman Joseph R. Maurer '12 pokes at the remains of a broken pumpkin.



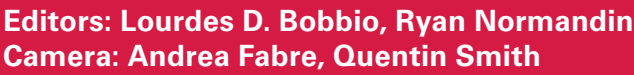
MARK FAYNGERSH

Oscar Figueroa '12 "makes science" by mixing water and flour for filling pumpkins.



JARED L. WONG

Spectators and participants at Pumpkin Drop walk through the remnants of the dropped pumpkins in front of the Green Building on Saturday evening.



VIDEO STAFF

Ever wondered what MIT students do on their Friday nights? Well, now you can find out. Whether they're debating global warming or discussing the best way to top a waffle, MIT students find a way to put away their psets for a night and have some fun ... most of the time. We journey from the dark, cold recesses of dorm row to the foreboding inner sanctuary of the Student Center's study room to determine what exactly it is that these students do on the best night of the week. So strap on your hats and get ready for a crazy ride filled with optimistic prefrats and fly-infested donuts! Watch the video at <http://tech.mit.edu/V131/N49/mitscoop/video.html>.



TUESDAY

WEDNESDAY

(3:00 p.m. – 4:30 p.m.) MacVicar Faculty Fellows Lecture Series: Thoughts on the Future of Engineering Education at MIT – Speaker: Professor Ian A. Waltz — Killian Hall

THURSDAY

(7:30 p.m. – 9:00 p.m.) Cambodian Dream: Rebuilding Cambodia by Empowering Its Women — Lecture by Professor Alan Lightman — 32-123

FRIDAY

(8:00 p.m. – 10:00 p.m.) The Rogers Plan directed by Susan Wilson, developed and produced by Dramashop and MIT Theater Arts — Kresge Auditorium Little Theater

SATURDAY

(8:00 p.m. – 11:00 p.m.) MIT Shakespeare Ensemble
presents *Macbeth* — W20-202

SUNDAY

(8:00 p.m. – 9:30 p.m.) MIT CSC and MIT ACF presents: Tim Be Told Concert — new Media Lab sixth floor MPR

MONDAY

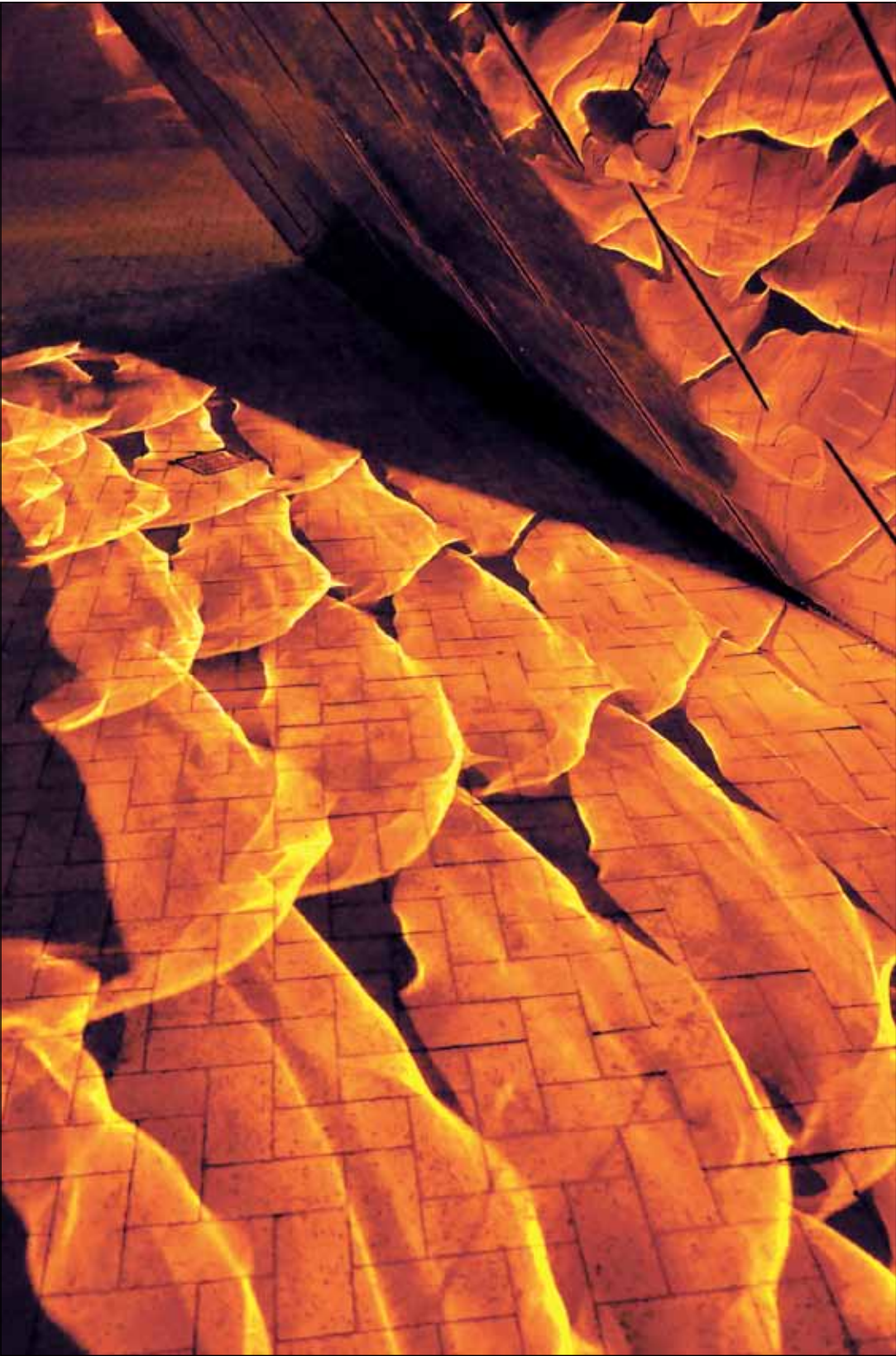
(7:00 p.m. – 8:00 p.m.) Society of Biological Engineers presents: how to successfully navigate MIT as a premed — 66-110

The Tech wants your questions!

A four-panel comic strip. Panel 1: A man stands at a desk, looking thoughtful. A speech bubble says: "HADD A FEW TALKING TO THE CHIEF ENGINEER YOU LEFT ME." A small sign on the desk says "J. Smith". Panel 2: The man sits at his desk, looking down at a piece of paper. A speech bubble says: "YOU RE-ENGINEERED THE ENTIRE THING." Panel 3: Two men are in an office. The man from panel 1 is on the left, looking confused. The other man is on the right, looking calm. A speech bubble from the man on the left says: "IT'S RATHER FOR ME TO BE HAVING A FEW TALKING TO THE CHIEF ENGINEER OF ALL THE THINGS YOU." A speech bubble from the man on the right says: "I TALK OF DISGRUNTLED BY DISGRUNTLED." Panel 4: The man from panel 1 is alone at his desk, looking very confused. A speech bubble says: "ABOUT HOW YOU DISGRUNTLED?" Another speech bubble says: "PART TO MY A FEW MONTHS."

Email your questions in text or video form
to cl@tech.mit.edu by
Thursday at 9 a.m.

Institute Double Take



At night, the lights outside the Stata Center bounce off the scales on the metallic walls to create oceanic reflections on the orange brick ground. The watery patterns on the bricks, in addition to the odd angle of Stata's wall, make this picture appear abstract at first sight. Unfortunately, without a tripod, high ISO was necessary.

Aperture:
f/3.5

Exposure Time:
1/8 sec.

Sensitivity:
ISO 6400

Effective Focal Length:
27 mm

[illegible][illegible][illegible][illegible][illegible][illegible]

FUN

[illegible][illegible]



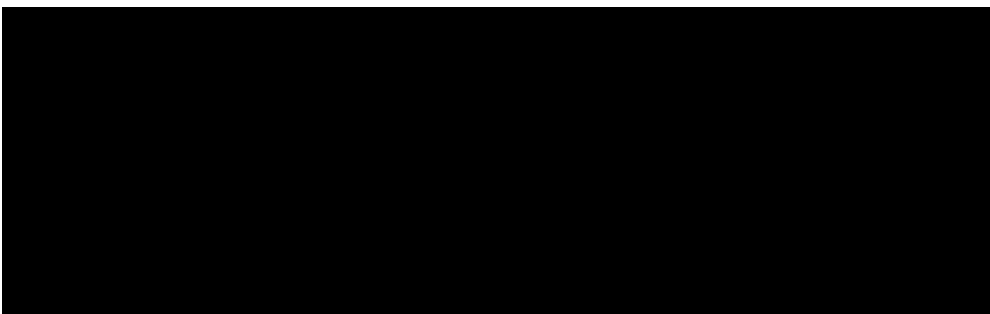
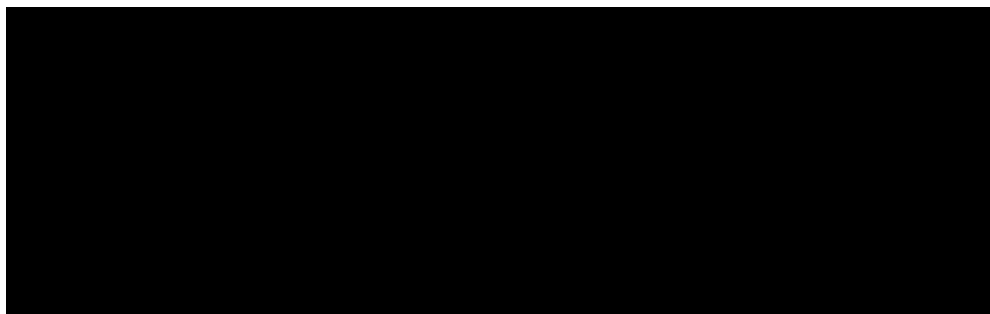
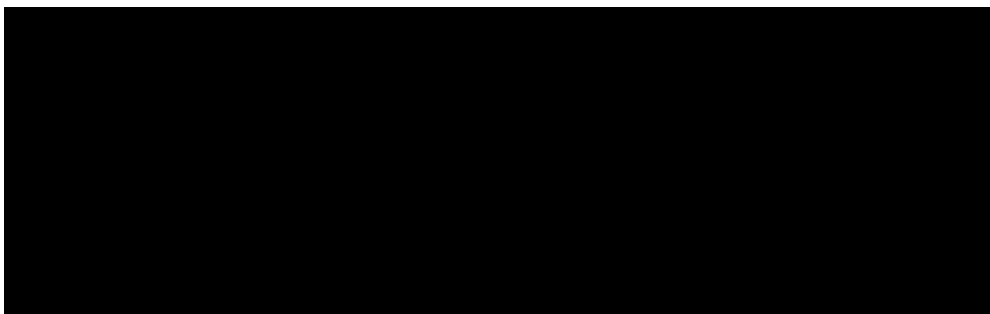
Yet even now, a small part of me wonders if I should've stayed in Med School.

S M B C
SATURDAY MORNING BREAKFAST CEREAL
BY ZACH WEINER
[1227] [2227]
↓ ↓



PAGE 15

Dilbert by Scott Adams



Crossword Puzzle

Solution, page 15

ACROSS

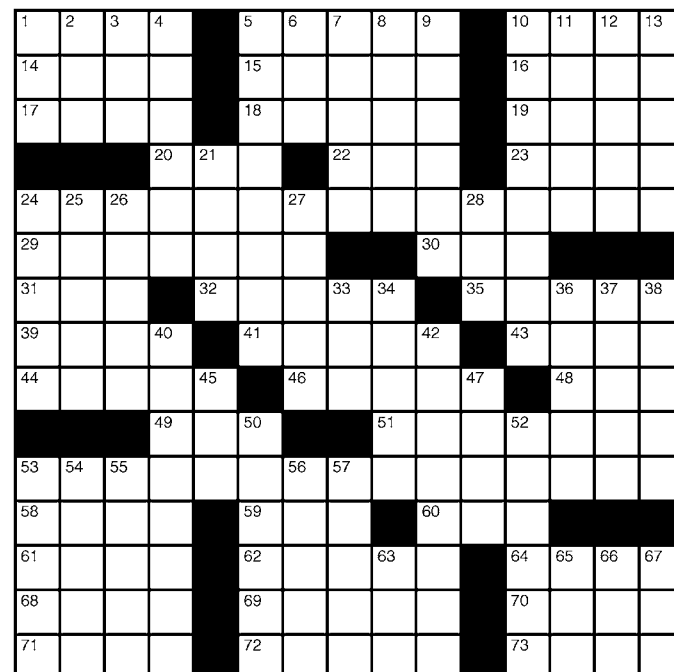
- 1 Start of Jamie Lee Curtis quip
- 5 Flotilla units
- 10 Indian nanny
- 14 Confess
- 15 Bicycle part
- 16 Bathe
- 17 Info
- 18 Sermonize
- 19 Bread buy
- 20 "Car Talk" broadcaster
- 22 Make haste
- 23 Formerly, formerly
- 24 Part 2 of quip
- 29 Serialized segment
- 30 __ Paulo, Brazil
- 31 PC key
- 32 Frasier Crane's brother
- 35 Rich kid in "Nancy"
- 39 Caresses
- 41 Part 3 of quip
- 43 Part of a hammerhead
- 44 Assert

- 46 Used a hand signal
48 Bern's river
49 Want ____
51 Diplomatic office
53 Part 4 of quip
58 NYC theatrical award
59 Fastener
60 Ed's work pile
61 Grass stalk
62 In a vertical line
64 Follow orders
68 Palm type
69 Unworldly
70 Latvian capital
71 Portent
72 Dismal
73 End of quip

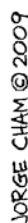
DOWN

- 1 June celebrant
- 2 Reproductive cells
- 3 "___ as a Stranger"
- 4 Banjo sounds
- 5 Infrequent

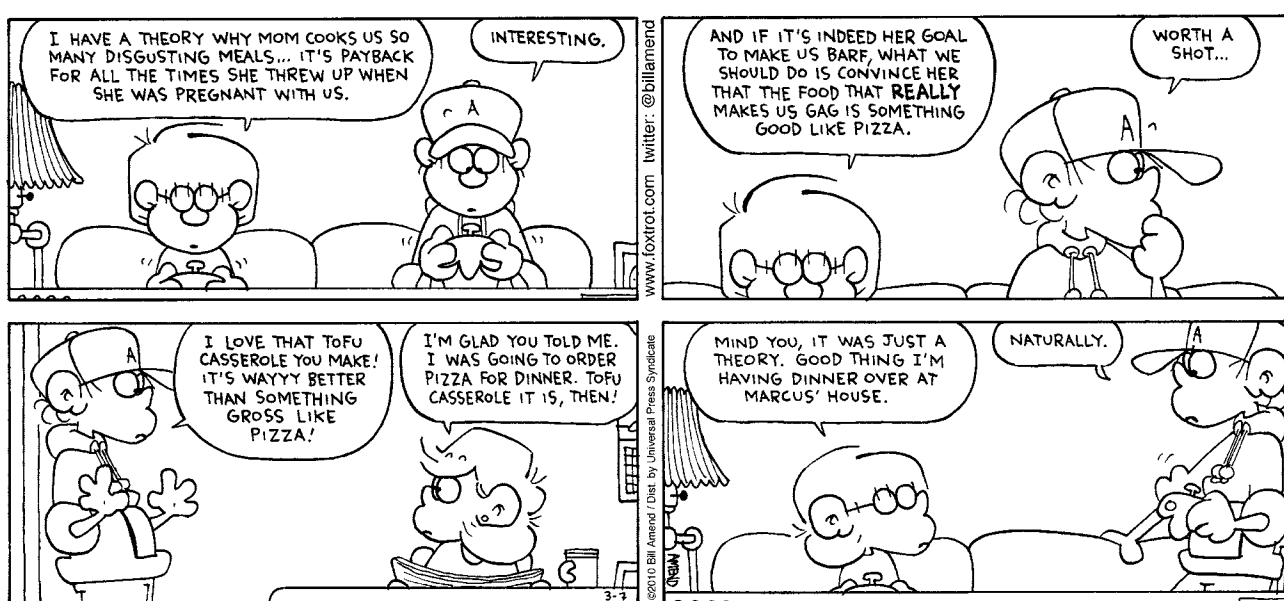
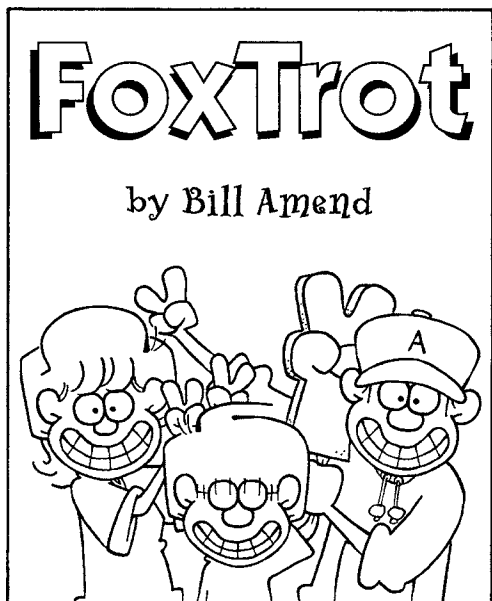
- 6 That girl
- 7 Pocatello's place
- 8 Barbecue's place
- 9 Makes smooth
- 10 Lifter's shout
- 11 New Zealand native
- 12 Nautical command
- 13 Judges weight by lifting
- 21 Menial worker
- 24 Army vehicles
- 25 Surprise win
- 26 Judgments
- 27 Subordinate to
- 28 Prohibit
- 33 Gabor sister
- 34 Cut off
- 36 Smallest amount
- 37 Canine tether
- 38 Way to have corned
beef
- 40 Remained
- 42 Call to mind
- 45 Old name for Tokyo
- 47 Corporate A.K.A.s



- | | |
|--|---------------------|
| 50 Had dinner | 56 More despicable |
| 52 Accumulate, as gas on
liquid surface | 57 Harden |
| 53 Body's trunk | 63 Hamm or Farrow |
| 54 Construction piece | 65 Brief life story |
| 55 Feudal lord | 66 Psyche division |
| | 67 Tibetan beast |



WWW.PHDCOMICS.COM



Solution, page 15

5						4		
	4	6					2	9
				8		6		1
		8		9	7			3
9			2		1			7
4			8	6		9		
6		1		4				
7	3					1	8	
		4						6

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Solution, page 15

60x			144x		
	36x				5
2÷				30x	
480x				5-	2x
4-		75x			
	6		4+		4

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.



Michael A. Batista '12 competes in the Men's Smallbore event during Friday's rifle competition against the U.S. Naval Academy and Wentworth Institute of Technology. CHRISTOPHER A. MAYNOR—THE TECH

Snow causes outages

Record Oct. snow affects 620K

Oct. snow, from Page 1

eral days before power is restored to most of the state. Governor Deval L. Patrick urged residents without power to remain patient, and Sen. Scott P. Brown tweeted yesterday morning that his power remained out as well.

"This is a house-by-house, branch-by-branch kind of response," Patrick said at a news conference, reported the *Boston Globe*.

Patrick declared a state of emer-

gency on Saturday night and called the National Guard to duty yesterday morning. By yesterday evening, approximately 700 guardsmen were posted throughout the state. At least three people have died as a result of the storm, one from a downed power line and another two from a car accident.

The rest of this week should see a return to normal November weather in the mid 50s. See page 2 for the full weather forecast.

Royal Bengal


Boston's only authentic Bengali Cuisine restaurant

Open Daily Except Monday
11:30 am – 11:30 pm
Lunch Buffet \$7.95
Reasonably Priced Dinners

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<http://www.royalbengalrestaurant.com/>




CAMBODIAN DREAM

REBUILDING CAMBODIA BY EMPOWERING ITS WOMEN

NOVEMBER 3, 2011, 7:30PM
MIT STATA CENTER (BUILDING 32)
ROOM 123

Professor Alan Lightman

INTRODUCED BY:
Professor John Ochsendorf,
Department of Architecture



EVENT DETAILS

PROFESSOR LIGHTMAN will present his work over the last 6 years to empower a new generation of women leaders in Cambodia – by carefully selecting the brightest and most ambitious young women in the country and providing them with free room and board, computers connected to the Internet, leadership training, and analyses of national and international news to develop their critical thinking.

ABOUT THE SPEAKER


PROFESSOR LIGHTMAN is a novelist, essayist, physicist, and educator. He was formerly John Burchard Professor of Humanities and Senior Lecturer in Physics at MIT and is now Adjunct Professor of Humanities. Lightman was one of the first professors at MIT to receive a joint appointment in the sciences and the humanities. His best known novel, *Einstein's Dreams*, was an international bestseller and has been translated into thirty languages.

Reception to follow the talk in R&D Pub, 32-G410. | [More details at http://writing.mit.edu](http://writing.mit.edu)

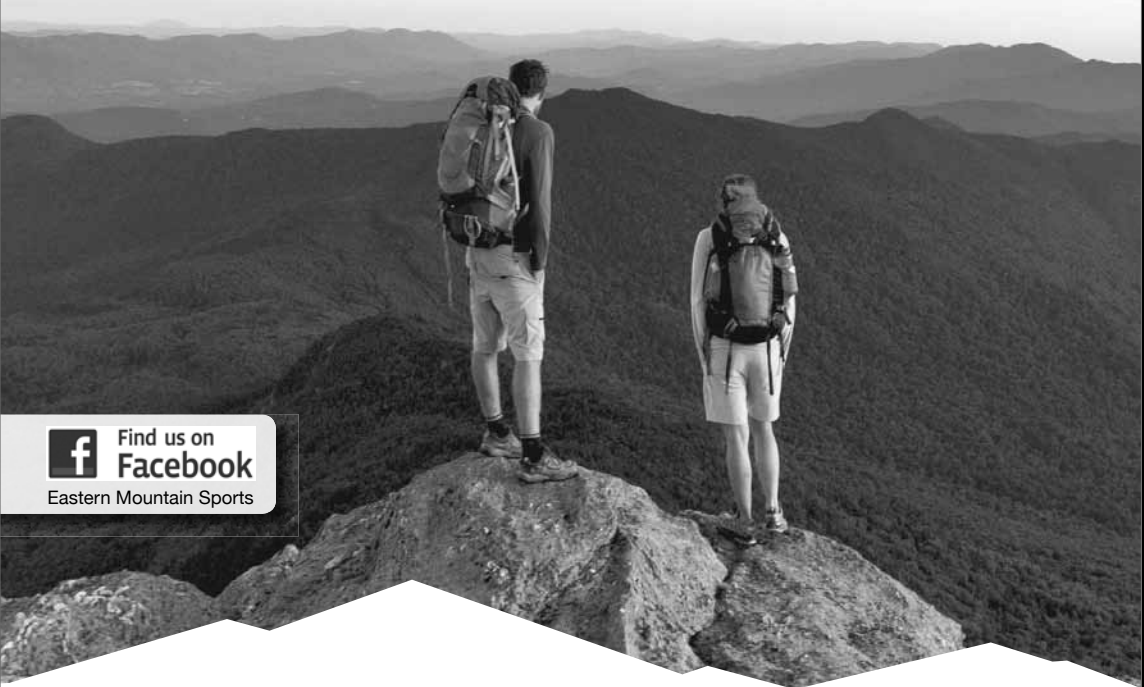
Can you beat this drawing?

Join Illustrators at The Tech!

E-mail join@tech.mit.edu



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Eastern Mountain Sports

College Students

Get 20% OFF all full-price EMS® brand items and 15% OFF all full-price national brand items. Must show valid college ID. Exclusions may apply; visit store for details.

Harvard Square

1 Brattle Square
Second Floor
617-864-2061



Tech's MLE

By The Tech Sports staff

ain the MLB Postseason. In the American League, the Philadelphia Phillies swept including a ho-hitter by Roy Halladay. The series against Atlanta in which every game will claim their league pennant and

Can you find the typo? (Answer is below)

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“no-hitter” in the second line of the second paragraph should be “no-out,”

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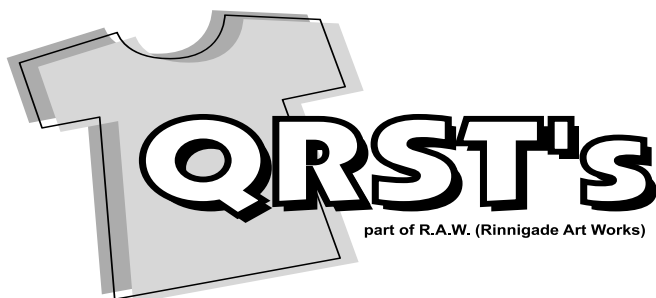
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Some content may be unsuitable for children under 13

Mosquitoes genetically altered

Insects bred to battle dengue fever show promise

By Andrew Pollack
THE NEW YORK TIMES

These mosquitoes are genetically engineered to kill — their own children.

Researchers on Sunday reported initial signs of success from the first release into the environment of mosquitoes engineered to pass a lethal gene to their offspring, killing them before they reach adulthood.

The results, and other work elsewhere, could herald an age in which genetically modified insects will be used to help control

agricultural pests and insect-borne diseases like dengue fever and malaria.

But the research is arousing concern about possible unintended effects on public health and the environment, because once genetically modified insects are released, they cannot be recalled.

Authorities in the Florida Keys, which in 2009 experienced its first cases of dengue fever in decades, hope to conduct an open-air test of the modified mosquitoes as early as December, pending approval from the federal Agriculture Department.

“It’s a more ecologically friendly way to control mosquitoes than spraying insecticides,” said Coleen Fitzsimmons, a spokeswoman for the Florida Keys Mosquito Control District.

The Agriculture Department, meanwhile, is looking at using genetic engineering to help control farm pests like the Mediterranean fruit fly, or medfly, and the cotton-munching pink bollworm, according to an environmental impact statement it published in 2008. Millions of genetically engineered bollworms have been released over cotton fields in Yuma County, Ariz.

*The Office of Religious Life and
Chaplain to the Institute Robert M. Randolph*
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God in Politics: How can a person of faith be in politics?

Featuring
The Hon. Roy Herron



November 1, 5pm, MIT Chapel
Reception to follow in W11 Main Dining Room

Roy Herron is the Tennessee State Senator for the 24th district. Herron graduated from the University of Tennessee in 1975, and from Vanderbilt University in 1980, with a M.Div. and a J.D. In 1975 and 1976 he was a Rotary Scholar in Scotland at the University of St. Andrews. Herron works as an attorney, a businessman, and as adjunct faculty at Vanderbilt University. He is a former United Methodist minister, and is also the co-chair of FaithfulDemocrats.com, an online community for Democrats of Christian faith.

Community letter, from Page 1

loss of Nicolas Del Castillo and Satto Tonegawa has touched our entire community, including those who may not have known them directly. I want to extend my own personal wish that each of you takes a bit of time away from your academic routine to reflect on your connections to our community and on your sense of personal well-being. Take the time to reach out to your own circle of friends, peers and neighbors – a dormmate who looks distracted, a friend who seems stressed. All of us, at every age, go through periods of doubt, of stress, of feeling alone. But these feelings can be more overwhelming when you’re young and away from home. If you feel this way, please reach out — to a friend, to your housemaster, to a member of the student support staff, to a mentor, to one of the Deans. If you need guidance, support or just a sympathetic ear, MIT faculty and staff are here to help. Remember that you can find links to a wide range of resources at http://web.mit.edu/student/personal_support.html.

At MIT, supporting our students is of tremendous importance. In recent years, we have supported that commitment by strengthening a wide range of services: in mental health and other wellness services, in student support services, in residential life, in dining, in advising and mentoring and in student activities, among others. We have incredibly devoted staff members, who provide exemplary service both day to day and in times of crisis. However, strengthening MIT also means reflecting on how we provide support services and processes for our students and how we evaluate those services. To this end, I am bringing together a team of advisors to examine all of our current support systems and to think freely about new ways of providing community support, in keeping with the wonderful culture that has always defined the MIT community. I hope that this process will produce some constructive steps forward; in support of this effort, I welcome input from any of you, our students, by sending email to whatsonyourmind@mit.edu.

I hope this will be a time when we join in strengthening our MIT community: by reaching out to peers, colleagues, friends, and mentors to renew our sense of connection; by taking advantage of MIT resources for help in dealing with the emotional challenges brought on by these events; and by reflecting on our goals and aspirations, individually and together.

—Eric Grimson PhD '80

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Solution to Sudoku I

from page 10

3	7	5	1	9	4	6	8	2
4	8	6	7	2	5	1	3	9
2	1	9	3	8	6	4	7	5
9	3	1	6	5	8	7	2	4
5	6	7	2	4	3	9	1	8
8	2	4	9	7	1	3	5	6
7	9	8	4	3	2	5	6	1
1	5	3	8	6	9	2	4	7
6	4	2	5	1	7	8	9	3

Solution to Techdoku I

from page 10

4	1	5	3	2	6
6	3	1	5	4	2
3	6	4	2	1	5
5	2	6	4	3	1
1	4	2	6	5	3
2	5	3	1	6	4

SMBC, from Page 11



Solution to Sudoku II

from page 12

5	1	7	9	2	6	4	3	8
8	4	6	5	1	3	7	2	9
3	9	2	7	8	4	6	5	1
1	2	8	4	9	7	5	6	3
9	6	5	2	3	1	8	4	7
4	7	3	8	6	5	9	1	2
6	8	1	3	4	9	2	7	5
7	3	9	6	5	2	1	8	4
2	5	4	1	7	8	3	9	6

Solution to Techdoku II

from page 12

1	5	4	6	2	3
3	1	6	2	4	5
4	2	1	3	5	6
5	3	2	4	6	1
6	4	3	5	1	2
2	6	5	1	3	4

Solution to Crossword

from page 11

D	O	N	T	S	H	I	P	S	A	M	A	H
A	V	O	W	P	E	D	A	L	L	A	V	E
D	A	T	A	O	R	A	T	E	L	O	A	F
		N	P	R	H	I	E			E	R	S
J	U	D	G	E	A	B	O	O	K	B	Y	I
E	P	I	S	O	D	E			S	A	O	
E	S	C		N	I	L	E	S		R	O	L
P	E	T	S		C	O	V	E	R		P	E
S	T	A	T	E		W	A	V	E	D		A
		A	D	S			E	M	B	A	S	S
T	I	L	Y	O	U	V	E	R	E	A	D	T
O	B	I	E		P	I	N		M	S	S	
R	E	E	D		P	L	U	M	B		O	B
S	A	G	O		E	E	R	I	E		R	I
O	M	E	N		D	R	E	A	R		B	O

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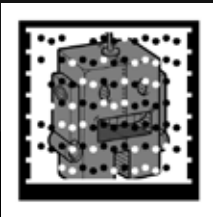
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How is your research?

By Philipp M. Diesinger
STAFF WRITER

Jorge Cham's *Piled Higher and Deeper — Life (or the lack thereof) in Academia*, aka PhD Comics have been capturing the grad student life in a humorous but always accurate way. The original newspaper and web comic strip started in 1997 when Jorge himself was a

grad student at Stanford University. The comic deals with the topics that govern grad student life like struggles in research, the relationship between students and their supervisors, and most importantly, the constant quest for free food. Much material was built up over the years, and it almost seems that

Screening at MIT on November 3

The PhD movie features several main characters from the original comic, like the intimidating Professor Smith (Zachary Abbott) — who, by the way, calls MIT a “minor” institution in the movie — the nameless hero (Raj Katti), a grad student in engineering, and Cecilia (Alexandra Lockwood), a dedicated engineer with a strong work ethic, to only name a few.



Professor Smith (Zachary Abbott) stares down a grad student in the PhD movie.

The movie references many of the original comics and it is entertaining to recognize those. Overall, *The PhD Movie* is a lot of fun and very enjoyable to watch. Nevertheless, the movie sometimes progresses too slowly and is not as concise and to the point as the comics. But even though *The*

PhD Movie is certainly not a polished Hollywood production, you can tell that a lot of work and wit went into the production; it captures the essence of the life of PhD students like no other movie and does it just as well as the comics it's based on. This makes it incredibly fun to watch with fellow grad

The screenings at MIT will be on November 3 in 26-100. Jorge Cham will be with be there for the screening and a Q&A afterwards. He is joined by cast member Evan Boney '06 (playing Mike Slackern-erny in the movie) as well as producer Meg Rosenburg.

By Shaena Berlin
TEAM REPRESENTATIVE

During the summer months, MIT competed in the Max Performance Series, which consisted of 5 triathlons of varying distances, from sprint (1/2 mile swim, 12 mile bike, 3.1 mile run) to Olympic distance (1 mile swim, 25 mile bike, 6.2 mile run). Thirty-one MIT triathletes participated throughout the summer. Thanks to the fact that MIT had a presence on podiums (overall and age groups) at every race, the MIT Tri Club handily won the

During the fall months, MIT took part in New England Collegiate Triathlon Conference (NECTC). The NECTC is comprised of all the collegiate clubs in New England and is one of the largest collegiate conferences in the country. As the sport of triathlon continues to garner interest from students nation-wide, the U.S.A. Triathlon organization has had to enact stricter qualification rules for the Collegiate Nationals Championships held every year in April. For the first time, the NECTC was only allowed to send seven male teams and six female teams, meaning that the 2011 races had more at stake than the usual end-of-season standings. The team qualification came down to the last race of the season, the NECTC Championships race held in Montauk, NY, on Oct. 1. MIT triathletes did extremely well in the most competitive race in NECTC his-

In addition to successful team results, MIT triathletes competed individually in several high-profile races. Katie Julia Quinn G qualified for the Half-Ironman World Championships after winning her age group at two of the most competitive Half-Ironman races on the East Coast. Samuel Nicaise G and Berlin placed in the top two of their respective age groups in the inaugural running of the MascomaMan Half Iron, and Matthieu J. Talpe G competed in the Age Group National Championships in Burlington, VT, in August. Many other MIT affiliates also successfully completed their first triathlon.

7 p.m., Rockwell Cage

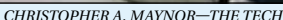
By Phil Hess
HEAD COACH

MIT's defense did the rest. The Engineers held Nichols to just 90 total yards and seven first downs in the game as they recorded their first shutout since blanking UMass-Dartmouth 26-0 in 2009.

MIT will play its final game of the season next Saturday, Nov. 5 when it hosts Endicott College at 1 p.m. on Senior Day. Nichols will also close out its season next week as it hosts Salve Regina at noon.

Rifle team challenges Naval Academy

—Jennifer C. de Bruijn, Team Representative



Members of the Men's Rifle team compete against the U.S. Naval Academy and Wentworth Institute of Technology on Friday. The men's and women's teams scored a combined total of 4,435 points, including a school record score of 2251 in air rifle, to place second in the competition.